

ABSTRACT OF THE DISCLOSURE

A light-conductive pipe is described comprising a body of light-conductive material having an input face having a first cross sectional perimeter at a first end and an output face having a second cross sectional perimeter at a second end, and at least one integral alignment feature projecting from the body providing a third cross-sectional perimeter larger than at least one of the first or second perimeters of the faces, wherein the projecting alignment feature does not have a surface in the same plane as either face. Also described are integral linear arrays of multiple light-conductive pipes, two-dimensional arrays formed from multiple aligned individual light-conductive pipes or stacked integral linear arrays, and expanding optical faceplates formed from such two-dimensional arrays. Tiled flat-panel display systems may be formed from a plurality of modules aligned in an array, each module comprising a flat-panel display having a plurality of pixels and an expanding optical faceplate formed from such two-dimensional arrays.